

Claims:

1. An inductive power coupler, comprising:
a primary;
a secondary separated from said primary by an air-gap;
said primary and secondary each having a thin ferrite core with a coil wrapped around the core;
each of said cores having a width extending outwardly from the corresponding coil, said width and a length of said cores being between two and ten times as large as said air-gap, and a thickness of 5% - 25% of said width.
2. A magnetic power coupler according to claim 1 wherein said primary and secondary are separated by a gap of on the order of 25 - 35 millimeters (1-1.4 inch).
3. A magnetic power coupler according to claim 1 wherein:
said thickness is between 3 millimeters (0.12 inch) and 30 millimeters (1.2 inch);
said length is on the order of 60 millimeters (2.4 inch) to 300 millimeters (12 inches); and
said width is on the order of between 60 millimeters (2.4 inch) and 300 millimeters (12 inches).